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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/085,408	03/01/2002	Takafumi Tsuge	112121	6785
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P.O. BOX 19928 ALEXANDRIA, VA 22320			PEREZ, GUILLERMO	
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			2834	
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Please find below and/or attached an Office communication concerning this application or proceeding.

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Examiner California Perez 2834		Application No.	Applicant(s)				
Guillermo Perez Citillermo Perez A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILUNIGATION. Enteredance of the major be aveilable under the pervisiones of 37 CFR 1,358(s). In no event, becauser, may a may be trained in the control of the con	Office Action Summary						
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1) Responsive to communication(s) filed on 28 October 2002. 2a) This action is FINAL. 2b This action is non-final. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Queyle, 1935 C.D. 11, 453 O.G. 213. Disposition of Claims 4) Claim(s) 1-21 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 1-21 is/are allowed. 6) Claim(s) 1-13 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) is/are objected to. 8) Claim(s) is/are objected to by the Examiner. 9) The specification is objected to by the Examiner. 10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received. 14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application). a) The translation of the foreign language provisional application has been received. 15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 120 and/or 121.	THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, - If NO period for reply is specified above, the maximum statutory pr - Failure to reply within the set or extended period for reply will, by s - Any reply received by the Office later than three months after the rearned patent term adjustment. See 37 CFR 1.704(b).	DN. FR 1.136(a). In no event, however, may n. a reply within the statutory minimum of the reiod will apply and will expire SIX (6) Mestatute, cause the application to become	a reply be timely filed hirty (30) days will be considered timely. ONTHS from the mailing date of this communication. ABANDONED (35 U.S.C. § 133).				
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DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

1. Claims 1, 6-7, 10, and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Ogawa (U. S. Pat. 5,047,678).

Referring to claim 1, Ogawa disclose an AC generator for a vehicle comprising: a rotor (3) having a rotary shaft (1), a field winding, and a slip ring provided on one end of the rotary shaft (1) and electrically connected to the field winding;

a brush unit having a brush held in sliding contact with the slip ring, a spring for pressing the brush, a brush holder (10) having a portion for receiving the brush, and a slip ring cover (5a,12) for covering the outer periphery of the slip ring; and

a suction/discharge port (5c,12c) that extends in an axial direction of the rotary shaft (1 see figures 7-8).

Referring to claim 6, Ogawa disclose that each of the brush holder (10) and the slip ring cover (5a,12c) has a cover portion (5) for closing its end portion at one axial end side of the rotary shaft (1), and the brush holder (10) is mounted on the slip ring cover (5) in the state where these cover portions are made to abut against each to other.

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Referring to claim 7, Ogawa disclose that engaging portions (11a) are formed on the cover portions and engaged with each other.

Referring to claim 10, Ogawa disclose that the brush holder (10) and the slip ring cover (5a,12) have a cylindrical portion (5a) formed at a frame side end portion, and the cylindrical portion (5a) is fitted with a small gap in a center hole made in a frame to which the brush holder (10) is fixed to pass the rotary shaft (1).

Referring to claim 13, Ogawa disclose that the slip ring cover is integrally formed with a wall (5a) part that extends in the axial direction of the rotary shaft (1) and covers the suction/discharge port (12c) partially so that the suction/discharge port (12c) is provided with an axial range of the slip ring cover.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

 Claims 2-5, and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ogawa in view of Fukasaku et al. (U. S. Pat. 4,626,720).

Ogawa substantially teaches the claimed invention except that it does not show that the slip ring cover has a first wall portion formed in a shape of an arc in cross section perpendicular to the rotary shaft. Ogawa does not disclose a second wall portion

formed inside the first wall portion. Ogawa does not disclose that the suction /discharge port is formed between the first wall portion and the second wall portion.

Ogawa does not disclose that the first wall portion and the second wall portion overlap in the peripheral direction and cover the suction/discharge port. Ogawa does not disclose that the brush holder partially extends to the first wall portion. Ogawa does not disclose that the suction/discharge port generally faces toward a ground in a state where the AC generator is mounted on a vehicle.

Fukasaku et al. disclose that the slip ring cover (70') has a first wall portion (75) formed in a shape of an arc (figure 4) in cross section perpendicular to the rotary shaft (6). Fukasaku et al. disclose a second wall portion (74) formed inside the first wall portion (75). Fukasaku et al. disclose that the suction /discharge port is formed between the first wall portion (75) and the second wall portion (74).

Fukasaku et al. disclose that the first wall portion (74) and the second wall portion (75) overlap in the peripheral direction and covers the suction/discharge port.

Fukasaku et al. disclose that the brush holder (24) partially extends to the first wall portion (75). The invention of Fukasaku et al. has the purpose of preventing the dust in the cooling air from attaching to the commutator surface.

It would have been obvious at the time the invention was made to modify the generator of Ogawa and provide it with the slip ring cover, brush holder, and port configuration disclosed by Fukasaku et al. for the purpose of preventing the dust in the cooling air from attaching to the commutator surface.

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It would have been obvious to one having ordinary skill in the art at the time the invention was made to place the port facing toward ground since it has been held that a mere reversal of the essential working parts of a device involves only routine skill in the art. *In re Einstein*, 8 USPQ 167.

3. Claims 9 and 11-12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ogawa in view of Ishida et al. (DE 19,950,126).

Ogawa substantially teaches the claimed invention except that it does not show that at least one of a projection and a groove are formed on the side wall portion to divide the area where the slip ring cover abuts against the brush holder into a plurality of portions. Ogawa do not disclose that an extending portion is formed on at least one of end portions of the slip ring cover in an axial direction to extend in a radial direction, and is inserted into a radial groove formed on the brush holder. Ogawa do not disclose that the slip ring cover has a rib-shaped projection formed on a surface where the slip ring cover abuts against the brush holder and is made to abut against the brush holder.

Ishida et al. disclose that at least one of a projection (43) and a groove are formed on the side wall portion (53) to divide the area where the slip ring cover (33) abuts against the brush holder (26) into a plurality of portions. Ishida et al. disclose that an extending portion (50) is formed on at least one of end portions of the slip ring cover (33) in an axial direction to extend in a radial direction, and is inserted into a radial groove formed on the brush holder (26). Ishida et al. disclose that the slip ring cover (33) has a rib-shaped projection (51) formed on a surface where the slip ring cover (33) abuts against the brush holder (26) and is made to abut against the brush holder (26).

The invention of Ishida et al. has the purpose of facilitating the manufacturing of the air feeder.

It would have been obvious at the time the invention was made to modify the generator of Ogawa and provide it with the side wall, extending portion, and rib-shaped projection configuration disclosed by Ishida et al. for the purpose of facilitating the manufacturing of the air feeder.

Allowable Subject Matter

Claims 14-21 are allowed.

The following is an examiner's statement of reasons for allowance: the prior art's references of record do not disclose the combination of features described in claim 14.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Response to Arguments

Applicant's arguments with respect to claims 1-13 have been considered but are moot in view of the new ground(s) of rejection.

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Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Guillermo Perez whose telephone number is (703) 306-5443. The examiner can normally be reached on Monday through Thursday and alternate Fridays.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor Ramirez can be reached on (703) 308 1371. The fax phone numbers for the organization where this application or proceeding is assigned are (703) 305 3432 for regular communications and (703) 305 3432 for After Final communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 308 0956.

Guillermo Perez January 11, 2003 NESTOR RAMIREZ SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2800